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L11: Entry 1 of 1

File: EPAB

Nov 9, 1995

PUB-NO: DE004415823A1

DOCUMENT-IDENTIFIER: DE 4415823 A1

TITLE: Household dish washer cleaning programme

PUBN-DATE: November 9, 1995

INVENTOR-INFORMATION:

NAME

KAEFFERLEIN, HEINZ

VOGEL, JUERGEN

HITZEMANN, JOCHEN DIPL ING

COUNTRY

DE

DE

DE

ASSIGNEE-INFORMATION:

NAME

LICENTIA GMBH

COUNTRY

DE

APPL-NO: DE04415823

APPL-DATE: May 5, 1994

PRIORITY-DATA: DE04415823A (May 5, 1994)

INT-CL (IPC): A47 L 15/46; A47 L 15/00

EUR-CL (EPC): A47L015/00; A47L015/46

ABSTRACT:

CHG DATE=19990617 STATUS=O>A household dish washer has sensors to assess the degree of contamination of the cleaning liquid and if it is too dirty, a change of water is instigated. The type of impurity is also indicated, as to whether the liquid contains suspended particles of egg white or starch, or other material. The indications are given by using injectors (8) filled with different solutions feeding metered amounts down a channel (9) to a trap chamber (7) for the cleaning liquid. Each trap chamber has an external sensor (11) to test the colour and/or intensity and send an information signal to the control electronics. When egg-white impurity is present in sufficient strength, there is a complete water change. If starch impurities are present, the cleaning liquid is raised in temperature and if enzyme-containing cleaners are used, the cleaning time is lengthened.

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L10: Entry 1 of 1

File: DWPI

Nov 9, 1995

DERWENT-ACC-NO: 1995-383698

DERWENT-WEEK: 200141

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TITLE: Household dish washer cleaning programme - has sensors to indicate degree and type of cleaning liquid contamination, with water change if severe

INVENTOR: HITZEMANN, J; KAEFFERLEIN, H ; VOGEL, J

PATENT-ASSIGNEE:

ASSIGNEE

CODE

LICENTIA PATENT-VERW GMBH

LICN

AEG HAUSGERAETE GMBH

AEGE

PRIORITY-DATA: 1994DE-4415823 (May 5, 1994)

Search Selected**Search ALL****Clear**

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>DE 4415823 A1</u>	November 9, 1995		004	A47L015/46
<input type="checkbox"/> <u>DE 4415823 C2</u>	July 19, 2001		000	A47L015/46

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 4415823A1	May 5, 1994	1994DE-4415823	
DE 4415823C2	May 5, 1994	1994DE-4415823	

INT-CL (IPC): A47 L 15/00; A47 L 15/46

ABSTRACTED-PUB-NO: DE 4415823A

BASIC-ABSTRACT:

A household dish washer has sensors to assess the degree of contamination of the cleaning liquid and if it is too dirty, a change of water is instigated. The type of impurity is also indicated, as to whether the liquid contains suspended particles of egg white or starch, or other material. The

indications are given by using injectors (8) filled with different solutions feeding metered amounts down a channel (9) to a trap chamber (7) for the cleaning liquid. Each trap chamber has an external sensor (11) to test the colour and/or intensity and send an information signal to the control electronics.

When egg-white impurity is present in sufficient strength, there is a complete water change. If starch impurities are present, the cleaning liquid is raised in temperature and if enzyme-containing cleaners are used, the cleaning time is lengthened.

ADVANTAGE - Cleaning program automatically adjusted to match degree of contamination.

CHOSEN-DRAWING: Dwg.2/3

TITLE-TERMS: HOUSEHOLD DISH WASHER CLEAN PROGRAMME SENSE INDICATE DEGREE TYPE
CLEAN LIQUID CONTAMINATE WATER CHANGE SEVERE

DERWENT-CLASS: P28 X27

EPI-CODES: X27-D01B;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1995-281036